XXIX. An Account of a remarkable Frost on the 23d of June, 1783. In a Letter from the Rev. Sir John Cullum, Bart. F. R. S. and S. A. to Sir Joseph Banks, Bart. P. R. S.

Read May 27, 1784.

DEAR SIR,

Hardwick-house, Nov. 10, 1783.

that

HEN I had the pleasure of seeing you in London, in the autumn, and mentioned a frost that happened in my neighbourhood on the 23d of last June, you expressed a desire of receiving some particulars about it. I therefore now send you some memorandums which I made at the time.

About fix o'clock, that morning, I observed the air very much condensed in my chamber-window; and, upon getting up, was informed by a tenant, who lives close to my house, that finding himself cold in bed, about three o'clock in the morning, he looked out at his window, and to his great surprise saw the ground covered with a white frost: and I was afterwards assured, upon indubitable authority, that two men at Barton, about three miles off, saw between three and sour o'clock that morning, in some shallow tubs, ice of the thickness of a crown-piece, and which was not melted before six.

This unfeafonable frost produced some remarkable effects. The arista of the barley, which was coming into ear, became brown and withered at their extremities, as did the leaves of the oats; the rye had the appearance of being mildewed; so

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---- penetrabile frigus adurit.

At the time this havock was made among fome of our hardy natives, the exotic mulberry-tree was very little affected; a fig-tree, against a north-west wall, remained unhurt, as well as the vine, on the other side, though just coming into blossom. I speak of my own garden, which is high; for in the low ones about Bury, that is but a mile off, the sig-trees, in particular, were very much cut: and, in general, all those gardens suffer more by frost than mine.

Some weather, that was cold for the time of year, had preceded this frost. On the 21st the thermometer had, at no time of the day, risen to 60°; on the 22d, at ten at night, it Vol. LXXIV.

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had funk to 50°. On the last day, and on the 23d, disappeared that dry haze, which had taken place some days before, and continued to blot out the sace of the sun for so long a time afterwards. After sun-set on the 24th it appeared again, and the next day the leaves of many vegetables were covered with a clammy sweetness.

The above flight notes were taken in my garden and its environs; and I wish they may afford you the smallest entertainment. If you should think them worth the attention of the Royal Society, dispose of them accordingly. So severe a frost, at so advanced a season, is certainly not one of the least remarkable among the atmospherical phænomena of this year.

I remain, dear Sir,

Your much obliged and faithful fervant,

JOHN CULLUM.

